

Product datasheet for RC211100

NECAP1 (NM_015509) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NECAP1 (NM_015509) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NECAP1
Synonyms:	DEE21; EIEE21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211100 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGACCGAGTTGGAGTACGAGTCTGTGCTGTGTGTAAGCCAGACGTCAGCGTCTACCGATTCCGC
 CCCGGGCTCCAACCGCGTTACAGGGCTCTGACTGGAAATTAGACCAGCCTGATTGGACTGGTCGCT
 CCGAATCACTTCAAAGGGAAGACTGCCTATATCAAACTCGAGGATAAAGTTTCAGGGGAGCTCTTTGCT
 CAGGCACCACTAGAACAATATCCTGGTATTGCTGTGGAGACGGTGACAGATTCTAGCCGCTACTTTGTAA
 TCCGGATCCAGGATGGTACTGGGCGCAGTGCTTTTCATTGGCATTGGCTTCACAGATCGGGGAGATGCCTT
 CGACTTTAATGTCTCCTTGCAGGATCACTTCAAGTGGGTAAGCAGGAATCTGAGATTTCCAAGGAATCT
 CAAGAAATGGATGCTCGTCCTAAGTTGGATCTGGGCTTCAAGGAAGGACAAACCATCAAGTTGTGTATCG
 GGAACATTACAAACAAGAAAGGAGGTGCTTCTAAGCCCAGGACTGCAAGGGGTGGGGTCTGAGCTTACT
 CCCACCCCGCCAGGAGGCAAAGTCACTATCCCCCACCATCCTCCTCAGTTGCCATCAGCAATCATGTC
 ACCCCACCACTTCCGAAATCTAACCATGGAGGCAGTGATGCAGATATCCTTTAGATTTGGATTCTC
 CTGCTCCTGTACGACACCAGCACCACTCCAGTTTCTGAAGCAATGACTTGTGGGAGACTTCAGCAC
 TGCTCCAGCTCTGTTCCAAACCAGGCACCACGCCATCCAACCTGGGTCCAGTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC211100 protein sequence
 Red=Cloning site Green=Tags(s)

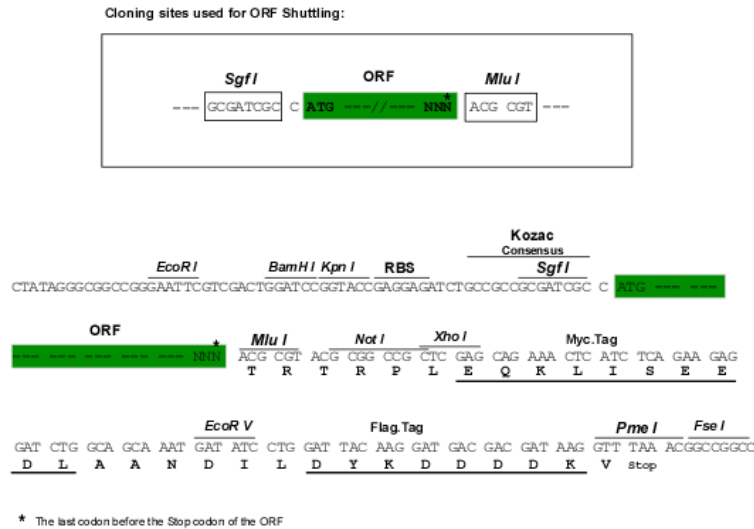
MATELEYESVLCVKPDVSYYRIPPRASNRGYRASDWKLDQPDWTGRLRITSKGKTAYIKLEDKVSSELFA
 QAPVEQYPGIAVETVTDSSRYFVIRIQDGTGRSAFIGIGFTDRGDAFDNVSLQDHFQWKQSEISKES
 QEMDARPKLDLGFKEGQTIKLCIGNITNKKGGASKPRTARGGGLSLLPPPPGGKVTIPPPSSVAISNHV
 TPPPPIKSNHGGSDADILLDLDSPAPVTTAPTPVSVSNDLWGDFTASSSVPNQAPQPSNWWQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6378_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015509

ORF Size: 825 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015509.4](#)

RefSeq Size: 2600 bp

RefSeq ORF: 828 bp

Locus ID: 25977

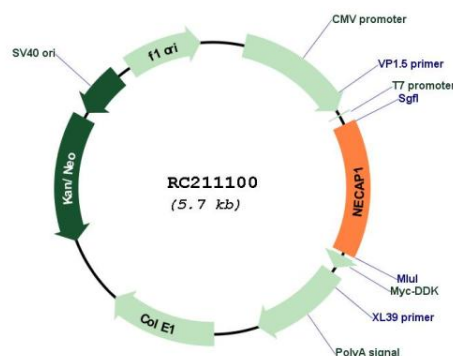
UniProt ID: [Q8NC96](#)

Cytogenetics: 12p13.31

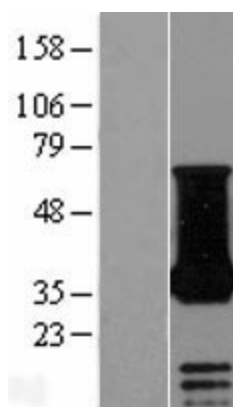
MW: 29.7 kDa

Gene Summary: This gene encodes a protein containing two characteristic WXXF motifs. The encoded protein localizes to clathrin-coated vesicles, where it binds components of the adapter protein complexes and aids in endocytosis. Loss of function of this gene results in early infantile epileptic encephalopathy-21. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

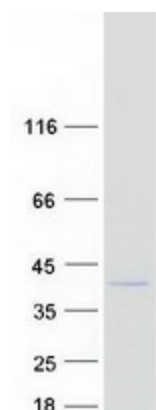
Product images:



Circular map for RC211100



Western blot validation of overexpression lysate (Cat# [LY414502]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211100 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NECAP1 protein (Cat# [TP311100]). The protein was produced from HEK293T cells transfected with NECAP1 cDNA clone (Cat# RC211100) using MegaTran 2.0 (Cat# [TT210002]).